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**ABSTRACT**

A method and system for calibrating acoustic receivers (112). The method and system facilitate calibrating the acoustic receivers (112) while they are mounted to a downhole acoustic tool (102). Calibrating the acoustic receivers (112) in situ provides more accurate results than previously available. The method and system provide separate compensation factors for the acoustic receivers (112) at different frequencies and for different transmission sources. The separate compensation factors facilitate more accurate signal acquisition over a wider range of conditions.